

SOL-GEL-DERIVED HALOGEN-DOPED GLASS

Abstract of the Disclosure

A method of fabricating a halogen-doped glass includes providing a gel monolith having a first halogen content. The method further includes reducing an impurity concentration of the gel monolith. The method further includes consolidating the gel monolith into a glass having a second halogen content. The second halogen content is less than or equal to the first halogen content. A halogen-doped glass has a fluorine content in a range between approximately 0.5 wt.% and approximately 4 wt.%, a chlorine content less than 100 parts per million, and an OH content less than one part per million.

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